

jc997 U.S. PTO
10/085665
02/25/02

PATENT
ATTORNEY DOCKET NO.

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants : Chang Su RYU, Yoon Seon SONG, Min Joon KIM & Seung Chul SHIN
Serial No.:

Filed :

Title : APPARATUS FOR CONTROLLING ELECTRICAL DEVICE USING
BIO-SIGNAL AND METHOD THEREOF

Commissioner of Patents and Trademarks
Washington DC 20231

INFORMATION DISCLOSURE STATEMENT

Dear Sirs:

Korean Patent Application No. 1999-10547 is directed to a remote control apparatus in an electrical device using motion of the eyes. The apparatus comprises bio-potential sensing means attached on the glasses for sensing a bio-potential generated by a motion of the eyes; reference signal generating means for calculating a reference signal which represents a motion size of the eyes using bio-potentials sensed by the bio-potential sensing means and a weighted coefficient; distinguish means for distinguishing the motion of the eyes using the bio-potentials and the reference signal, and then outputting a signal representing a motion of the eyes distinguished, a moving direction and a motion size; signal processing means for amplifying and filtering output signals of the distinguish means to generate an eye's motion signal and a blinking signal, and then converting the eye's motion signal and a blinking signal to the digital signals; and control means for receiving signals from the signal processing means, and then outputting signals to control the electrical device.

Respectfully submitted,

Date : 2/26/02

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#3/Prior Art
mcBeth
Attorney Doc. No.: 5882P009 7/8/02
Express Mail No.: EL651821770US

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10/085665
02/26/02

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re the Application of:

CHANG SU RYU, ET AL.

Application No.:

Filed:

For: APPARATUS FOR CONTROLLING ELECTRICAL DEVICE
USING BIO-SIGNAL AND METHOD THEREOF

Art Group:

Examiner:

INFORMATION DISCLOSURE STATEMENT UNDER 37 C.F.R. §1.97

Assistant Commissioner for Patents
Washington, D.C. 20231

Sir:

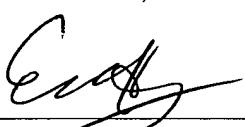
Pursuant to Rule 1.97, Applicant desires to make of record the reference(s) set forth on the attached Form PTO 1449 (or PTO/SB/08). A copy of each reference is submitted herewith.

It is hereby stated that this Information Disclosure Statement is being filed within three months of the filing date of the subject application, therefore no petition or fee is required. However, in the event a petition is needed for consideration of this Information Disclosure Statement, Applicant hereby so petitions. Please charge any additional fee due to Deposit Account 02-2666.

Respectfully submitted,

BLAKELY, SOKOLOFF, TAYLOR & ZAFMAN LLP

Date: 7/16/02


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BIO-SIGNAL AND METHOD THEREOF

Commissioner of Patents and Trademarks
Washington DC 20231

INFORMATION DISCLOSURE STATEMENT

Dear Sirs:

Korean Patent No. 0179250 is directed to an input device using motion of an eyelid. The input device comprises electromyogram measurement electrodes for measuring motion of the muscle around the eyeballs; an amplify and filter part for amplifying signals received from the electromyogram measurement electrodes to a desired level, and then filtering the signals to obtain the signals to be used; a conversion part for converting the signals received from the amplify and filter part to the digital signals; a digital signal processor for converting the digital signals to the signals of the frequency region; a control part for comparing the output signals of the digital signal processor with a studied signal to judge a motion degree of the eyelid, and generating the codes corresponding to the compared result; and an infrared transmission part for converting the codes to the infrared signals, and transmitting the infrared signals.

Respectfully submitted,

Date : 2/26/02



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| Form PTO-1449 (Modified) | | Atty Docket No. 5882P009 | Application No. |
| <i>List of Patents & Publications Statement</i> (Use several sheets if necessary) | | Applicant(s): Chang Su Ryu, et al. | |
| | | Filing Date: | Group No.: |

U.S. PATENT DOCUMENTS

| Exam. Initials | | Document Number | Date | Name | Class | Sub-class | Filing Date (if appropriate) |
|----------------|--|-----------------|------------|--------|-------|-----------|------------------------------|
| AA | | 6254536 B1 | 07/03/2001 | DEVITO | 600 | 300 | |
| AB | | 5649061 | 07/15/1997 | SMYTH | 395 | 20 | |
| AC | | | | | | | |
| AD | | | | | | | |
| AE | | | | | | | |
| AF | | | | | | | |
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| AJ | | | | | | | |
| AK | | | | | | | |

FOREIGN PATENT DOCUMENTS

| Exam. Initials | | Document Number | Date | Country | Class | Sub-class | Translation Yes | No |
|----------------|--|-----------------|------------|---------|---------|-----------|-----------------|----|
| AL | | 0179250 | 26/11/1998 | KOREA | G08C 19 | 00 | | X |
| AM | | 199-10547 | 05/07/1999 | KOREA | H04Q 9 | 00 | | X |
| AN | | | | | | | | |
| AO | | | | | | | | |
| AP | | | | | | | | |
| AQ | | | | | | | | |

OTHER ART (Including Title, Author, Date, Pertinent Pages, etc.)

| Exam. Initials | | Document Identification |
|----------------|----|-------------------------|
| | AR | |
| | AS | |
| | AT | |

Examiner: _____ Date Considered: _____

Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication